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Total Number of Pages in This Submission

_	1 /	
Application Number	09/458,882	
Filing Date	December 10, 1999	
First Named Inventor	Mikio Mizutani et al.	
Art Unit	2626	
Examiner Name	Mark E. Wallerson	
Attorney Docket No.	MAT-4351US1	

ENCLOSURES (Check all that apply)				
Fee Transmittal Form Fee Attached	Drawing(s)  Licensing-related Papers	·	After Allowance Communication to TC	
Amendment/Reply After Final Affidavits/Declaration(s)	Petition  Petition to Convert to a Provisional Application		Appeal Communication to Board of Appeals and Interferences  Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)	
Extension of Time Request	Power of Attorney, Revocation, Change of Correspondence	I —	Proprietary Information	
Express Abandonment Request	Address  Terminal Disclaimer		Status Letter	
Information Disclosure Statement	Request for Refund		Other Enclosure(s) (please identify below): nse To Notice To File	
Certified Copy of Priority Document(s)	CD, Number of CD(s)  Landscape Table on CD	Сору	rrected Application Papers of Notice To File Corrected plication Papers	
Response to Missing Parts/ Incomplete Application		Replac Sp	Dement Page 15 of Substitute ecification	
Response to Missing Parts under 37 CFR 1.52 or 1.53	Remarks:			
SIGNATURE OF APPLICANT, ATTORNEY OR AGENT				
Firm Name RetrierPrestia Signature Printed Name Lawrence E. Ashery				
Date November 3, 2005	Registration No.	34,5	15	
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#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ppln. No:

09/458,882

Applicants: Filed:

Mikio MIZUTANI, et al. December 10, 1999

Title:

MODULATOR AND DEMODULATOR (MODEM)

TC/A.U.:

2626

Examiner:

Mark E. Wallerson

Confirmation No.: 9396

Docket No.:

MAT-4351US1

### RESPONSE TO NOTICE TO FILE CORRECTED APPLICATION PAPERS

Mail Stop Issue Fee Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Applicants respectfully request that the Examiner accept the enclosed replacement page

of the substitute specification submitted herewith.

ctfully submittee

**\$**4,515 Lawrence E. Ashery, Reg. No. Attorney for Applicants

LEA/ds

**Enclosures: Notice to File Corrected Application Papers** 

Replacement Page 15 of Substitute Specification

Dated: November 3, 2005

P.O. Box 980

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The Commissioner for Patents is hereby authorized to charge payment to Deposit Account No. 18-0350 of any fees associated with this communication.

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ATTORNEY DOCKET NO. CONFIRMATION NO. FIRST NAMED INVENTOR APPLICATION NO. FILING DATE 09/458,882 12/10/1999 MIKIO MIZUTANI MAT-4351US1 9396 **EXAMINER** 10/28/2005 7590 LAWRENCE E ASHERY WALLERSON, MARK E RATNER & PRESTIA SUITE 301 ART UNIT PAPER NUMBER **POST OFFICE BOX 980** 2626 VALLEY FORGE, PA 194820980 RatnerPrestia ATE MAILED: 10/28/2005 RSD ON (30 DAYS) 11-27-05

Please find below and/or attached an Office communication concerning this application or proceeding.



#### UNITED STATES PATENT AND TRADEMARK OFFICE



Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Serial Number 09458882

Date Mailed 10/28/05

## NOTICE TO FILE CORRECTED APPLICATION PAPERS

### Notice of Allowance Mailed

This application has been accorded an Allowance Date and is being prepared for issuance. The application, however, is incomplete for the reasons below.

Applicant is given 30 days from the mail date of this Notice within which to correct the informalities indicated below. A failure to reply will result in the application being ABANDONED. This period for reply is NOT extendable under 37 CFR 1.136 (a) or (b).

• Specification---page 15 of the substitute specification is illegible.

APPLICANT MUST SUPPLY MISSING INFORMATION WITHIN 30 DAYS OF THE MAIL DATE OF THIS NOTICE.

A copy of this notice <u>MUST</u> be returned with the reply. Please address response to Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

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As shown in Fig. 15, an exemplary embodiment of the cresent invention proves NOV 07 2005 As snown in Fig. 13, an once of the previous mode and at \$403, the following benefits: When the process of the previous mode are set at \$404 by the \$404 by the previous mode are set at \$404 by the \$404 by the previous mode are set at \$404 by the \$40 MO EM 11 controls a status-transition and also the next mor instruction of selecting the next mode, thereby guaranteeing swit a resulting in efficient communication. Further, the M tim 3 instead of the facsimile controller 12, thereby reducir fact nile controller 12.

Various mode-switches by the MODEM are explaine M' DEM 11 as several operational-modes and another op sence which controls the several operational-modes. F mile se uence using the half-duplex V.34 Standard ba -31), Phase 2 (S432), Phase 3 (S433), the controlling ch annel 35) are the modes in the sequence. The MOD v.34 Standard into which these modes are co

MODEM mode is set as the V.34 half-duplex mo-Phase 1 of Step S431 starts, where an adjustment the V.34 Standard can be transmitted/received starte comp :, the MODEM 11 transfers to Phase 2 of Step S4 than eristics and the symbol speed of the MODEM. At : 3 where equalizer-training (set a coefficient in or comp lents) to the MODEM 11 is provided. After Phase he control channel, where the data speed is determ info tation of the T.30 Standard is exchanged.

When the control channel ends, the MODEM is at tel, where the image data of the facsimile is transfer , the MODEM enters Step S436 to determine what t ruction from facsimile controller 12, the MODEM w 37, where the control channel resets the data-speed, o introl channel does not reset the data-speed. Facsimile struction to the MODEM 11 to determine the next step ompleting the main channel in Step S435.

is set at \$404 by the timing for the mode-EM can monitor the ne load on the

Fig. 16 shows that the onal mode having a 6 is a flow-chart of a on the ITU. Phase 1 el (\$434), and the main 11 has the half-duplex .bs.

before the operation is nade so that the data n Step \$431 is o determine the line's p S433, the MODEM is to determine distortion the MODEM is at Step i and terminal

2 S435, the main When the main channel next. Based on an ther proceed to 1) Step to Step \$438, where the troller 12 gives this 137 or \$438, before